Recovery Plan Action Status

Plan Name: Recovery Plan for the Morro Shoulderband Snail and Four Plants from San Luis Obispo County

Plan Status: Final Plan Date: 28-Sep-98 Lead Agency: USFWS

Lead Office: Ventura Fish And Wildlife Office 644-1766)

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Morro shoulderband (=Banded dune) snail (Helminthoglypta walkeriana), Morro manzanita (Arctostaphylos morroensis), Indian Knob mountain balm (Eriodictyon altissimum)	1	1.1.1	Secure primary sites for Morro Bay species	Partially Complete	FY 1995 - FY 1999		California Department of Parks and Recreation, San Luis Obispo County, California, U.S. Fish and Wildlife Service, California Department of Fish and Game	Acquisition	Internal Administrative, Internal Technical Assistance	Information is for snail, Pismo clarkia, and Chorro Creek bog thistle
Morro shoulderband (=Banded dune) snail (Helminthoglypta walkeriana)	1	1.1.2	Conduct surveys to evaluate the relative importance of secondary sites, dispersal corridors, and other areas of potential habitat and secure as necessary	Unknown			California Department of Parks and Recreation, U.S. Fish and Wildlife Service, California Department of Fish and Game, To be determined	Research: Habitat Requirements, Research: Habitat Status	Graduate Student, Species Expert	Information for Pismo clarkia and Chorro Creek bog thistle
Morro shoulderband (=Banded dune) snail (Helminthoglypta walkeriana), Morro manzanita (Arctostaphylos morroensis), Indian Knob mountain balm (Eriodictyon altissimum)	2	2.1.1.1	Develop and implement strategies to control or eliminate illegal OHV use	Complete	FY 1995 - FY 1999		California Department of Parks and Recreation, U.S. Fish and Wildlife Service, California Department of Fish and Game	Management: Habitat Maintenance and Manipulation, Other: Law Enforcement, Other: Regulations	Internal Administrative, Internal Technical Assistance	Information for snail

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Morro shoulderband (=Banded dune) snail (Helminthoglypta walkeriana), Morro manzanita (Arctostaphylos morroensis), Indian Knob mountain balm (Eriodictyon altissimum)	2	2.1.1.3.1	Develop and implement prescribed burn plan	Partially Complete	FY 1995 - FY 1999		California Department of Parks and Recreation, California Department of Fish and Game	Management: Habitat Maintenance and Manipulation	Internal Technical Assistance	Information for snail
Morro shoulderband (=Banded dune) snail (Helminthoglypta walkeriana), Morro manzanita (Arctostaphylos morroensis), Indian Knob mountain balm (Eriodictyon altissimum)	3	2.1.1.3.2	Develop and implement strategy for wildfire suppression	Not Started			California Department of Parks and Recreation, California Department of Fish and Game, To be determined	Management: Habitat Maintenance and Manipulation, Management: Planning	Contract	

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Morro shoulderband (=Banded dune) snail (Helminthoglypta walkeriana)	2	2.1.2	Prevent potential introduction of non-native predatory snails	Unknown			San Luis Obispo County, California, California Department of Fish and Game	Management: Predator and Competitor Control	Internal Field Assistance, Species Expert, Volunteer	
Morro shoulderband (=Banded dune) snail (Helminthoglypta walkeriana)	3	2.1.3	Discourage pesticide applications	Not Started			San Luis Obispo County, California, California Department of Fish and Game	Management: Other, Other: Information and Education	Internal Field Assistance, Species Expert	
Morro shoulderband (=Banded dune) snail (Helminthoglypta walkeriana), Morro manzanita (Arctostaphylos morroensis), Indian Knob mountain balm (Eriodictyon altissimum)	2	3.1.1	Determine methods to control non- native plant species	Unknown			California Department of Parks and Recreation, San Luis Obispo County, California, U.S. Fish and Wildlife Service, California Department of Fish and Game, Non- governmental organizations	Management: Habitat Maintenance and Manipulation, Other: Administration	Contract, Internal Technical Assistance	jmv 12-05. see 2.1.1.2 above Information for Pismo clarkia and Chorro Creek bog thistle
Morro shoulderband (=Banded dune) snail (Helminthoglypta walkeriana), Morro manzanita (Arctostaphylos morroensis), Indian Knob mountain balm (Eriodictyon altissimum)	2	3.1.2	Determine methods to maintain a mosaic of vegetation communities	Unknown			California Department of Parks and Recreation, San Luis Obispo County, California, U.S. Fish and Wildlife Service, California Department of Fish and Game	Management: Habitat Maintenance and Manipulation, Other: Administration	Contract, Internal Technical Assistance	Information for Pismo clarkia and Chorro Creek bog thistle
Morro shoulderband (=Banded dune) snail (Helminthoglypta walkeriana)	2	3.2.1.1	Determine if brown garden snail is a competitive threat to Morro shoulderband	Complete	FY 2000 - FY 2004	FY 2005	California Department of Parks and Recreation, U.S. Fish and Wildlife Service, California Department of Fish and Game	Research: Competition	Contract, Graduate Student, Species Expert	Information for snail
Morro shoulderband (=Banded dune) snail (Helminthoglypta walkeriana)	2	3.2.1.2	Study habitat use and life history needs of the Morro shoulderband snail	Not Started			California Department of Parks and Recreation, U.S. Fish and Wildlife Service, California Department of Fish and Game	Research: General	Internal Field Assistance	Information for snail

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Morro shoulderband (=Banded dune) snail (Helminthoglypta walkeriana)	2	3.2.1.3	Identify Morro shoulderband parasites and determine if parasitism rates are threatening populations	Obsolete			California Department of Parks and Recreation, U.S. Fish and Wildlife Service, California Department of Fish and Game	Research: Disease	Contract, Graduate Student, Species Expert	We thought this was a factor at the time of listing, however, current information and thinking indicates that this is not a factor that might cause the extinction of this species.
Morro shoulderband (=Banded dune) snail (Helminthoglypta walkeriana), Pismo clarkia (Clarkia speciosa ssp. immaculata), Chorro Creek bog thistle (Cirsium fontinale var. obispoense), Indian Knob mountain balm (Eriodictyon altissimum)		4.1	Monitor populations to ascertain trends	Unknown			California Army National Guard, California Department of Parks and Recreation, U.S. Fish and Wildlife Service, California Department of Fish and Game	Research: Demographic Studies	Contract, Internal Field Assistance, Species Expert	Information for Pismo clarkia and Chorro Creek bog thistle. Not yet started for snail.
Morro shoulderband (=Banded dune) snail (Helminthoglypta walkeriana), Pismo clarkia (Clarkia speciosa ssp. immaculata), Morro manzanita (Arctostaphylos morroensis), Chorro Creek bog thistle (Cirsium fontinale var. obispoense), Indian Knob mountain balm (Eriodictyon altissimum)		4.2	Evaluate effectiveness of methods used to reduce threats	Unknown			U.S. Fish and Wildlife Service	Other: Regulations	Contract, Internal Technical Assistance, Species Expert	Information for Pismo clarkia and Chorro Creek bog thistle. Not started for snail.

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Morro shoulderband (=Banded dune) snail (Helminthoglypta walkeriana), Pismo clarkia (Clarkia speciosa ssp. immaculata), Morro manzanita (Arctostaphylos morroensis), Chorro Creek bog thistle (Cirsium fontinale var. obispoense), Indian Knob mountain balm (Eriodictyon altissimum)	3	5.2.1	Hold public meetings	Unknown			California Department of Parks and Recreation, San Luis Obispo County, California, U.S. Fish and Wildlife Service, California Department of Fish and Game	Other: Administration	Internal Technical Assistance	Information for Pismo clarkia and Chorro Creek bog thistle. Status is complete for snail; Service held a NEPA scoping meeting that addressed the snail. The meeting was held in summer 2005.

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Morro shoulderband (=Banded dune) snail (Helminthoglypta walkeriana), Pismo clarkia (Clarkia speciosa ssp. immaculata), Morro manzanita (Arctostaphylos morroensis), Chorro Creek bog thistle (Cirsium fontinale var. obispoense), Indian Knob mountain balm (Eriodictyon altissimum)	3	5.2.3	Encourage landscaping with local native vegetation	Unknown			U.S. Fish and Wildlife Service, California Department of Fish and Game, Non- governmental organizations	Other: Administration	Internal Technical Assistance	Status is unknown for Pismo clarkia and Chorro Creek bog thistle. Status for snail is Obsolete. For the snail, several products have been put out for the general public and work continues; however, we are trying to reduce movement of snails from undisturbed habitat into urban areas to minimize adverse effects to the snail.
Morro shoulderband (=Banded dune) snail (Helminthoglypta walkeriana), Pismo clarkia (Clarkia speciosa ssp. immaculata), Morro manzanita (Arctostaphylos morroensis), Chorro Creek bog thistle (Cirsium fontinale var. obispoense), Indian Knob mountain balm (Eriodictyon altissimum)	2	6.1	Reevaluate recovery criteria	Unknown			California Department of Parks and Recreation, U.S. Fish and Wildlife Service, California Department of Fish and Game	Other: Regulations	Contract, Internal Technical Assistance, Species Expert	Information for Pismo clarkia and Chorro Creek bog thistle

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